

Whirlwind

W1 39 Pin Connector System

Technical Data

Materials and Finishes:

- Contacts: Copper alloy, hard gold plate over nickel under plate per MIL-G-45204
- Insulators: Low temperature elastomer
- 'O' Rings and Seals: Low temperature elastomer
- Shells and Dust Caps: All aluminum alloy, black anodized coating
- Chain-Stainless steel

Mechanical Data:

- Operating Temperature: -40°C to +105°C
-40°F to +221°F

- Contacts: #20 AWG Solder type (7.5 Amp rating)
- Contact Retention: 15 lbs. minimum
- Connector Engagement and Separation Forces: 32 in. lbs. maximum
- Polarization: 5 Keyways

Electrical Data:

- Operating Voltage: 850 VDC or 600 VAC rms maximum
- Insulation Resistance: 5000 megohm minimum
- Contact Resistance: 6 milliohms maximum

The Whirlwind W1 is a 39 contact, quick disconnect connector system based on the proven MIL-26482 multipin standard. The pin and socket modules are shall size 20 with a standard 39 contact insert arrangement. The solder style contacts are permanently mounted in resilient rubber insulators to provide years of trouble free service. Whirlwind manufactures a robust aluminum backshell to protect the soldered connections and provides a waterproof mesh grip for an absolutely reliable strain relief on the cable.

The W1 system utilizes a 39 pin male insert in a plug shell, with a quarter-turn locking ring and a 39 socket female insert in a receptacle shell with studs, that mates with the male plug shell.

Whirlwind provides the W1 in four standard configurations, male and female inline and male and female chassis mount. The W1 can be used to interconnect up to 12 balanced, shielded signal lines.

W1CF

AB39FP
AB39CAP
PT1-16BK-1.5
PT3-16BK-1.0
PT1-16BK-0.5
W1 Pin Out

Female Panel Connector / Cap, Wiring Kit Complete

39 Pin Female Panel Mount Body with Studs 1
Dust Cap with Ring For Female 39 Pin 1
Drain Wire Insulator 1/16" Blk Shrink Tube 1.5" 13
Mylar / Foil Insulator 3/16" Blk Shrink Tube 1.0" 13
Solder Cup Insulator 1/16" Blk Shrink Tube 0.5" 39
Wiring Diagram For 39 Pin 1

W1CM

AB39MI
AB39MPA
AB39CAPWT
PT1-16BK-1.5
PT3-16BK-1.0
PT1-16BK-0.5
W1 Pin Out

Male Panel Connector / Cap, Wiring Kit Complete

39 Pin Male Inline Body with Ring 1
Panel Mount 39 Pin Blk Flange with Set Screw 1
Dust Cap with Studs For Male 39 Pin 1
Drain Wire Insulator 1/16" Blk Shrink Tube 1.5" 13
Mylar / Foil Insulator 3/16" Blk Shrink Tube 1.0" 13
Solder Cup Insulator 1/16" Blk Shrink Tube 0.5" 39
Wiring Diagram For 39 Pin 1

W1IF

AB39FI
AB39CAP
AB39H
AB60G
ABKR
PT1-16BK-1.1
PT3-16BK-0.5
PT1-16BK-0.5
W1 Pin Out

Female Inline Connector / Cap, Wiring Kit Complete

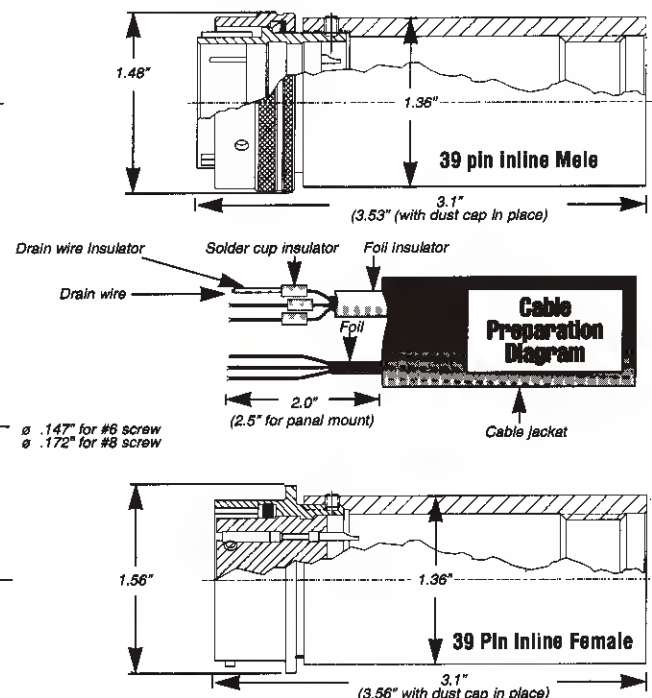
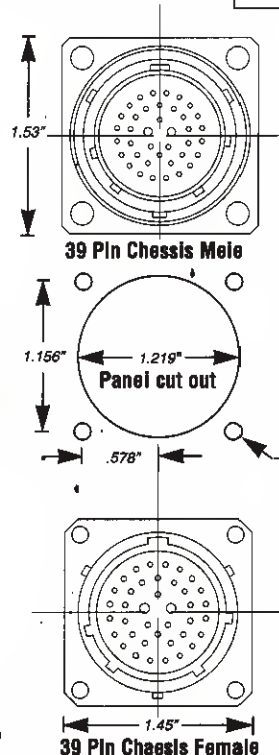
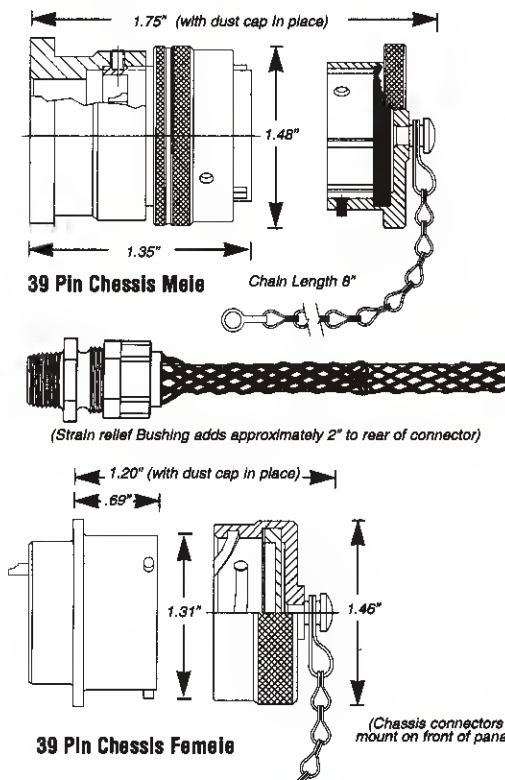
39 Pin Female Inline Body with Studs 1
Dust Cap with Ring For Female 39 Pin 1
39 Pin Inline Housing with Set Screws 1
39-61 Inline Strain Relief Grip Range .375"-.50" 1
16mm Split Ring For Dust Cap Chain 1
Drain Wire Insulator 1/16" Blk Shrink Tube 1.1" 13
Mylar / Foil Insulator 3/16" Blk Shrink Tube 0.5" 13
Solder Cup Insulator 1/16" Blk Shrink Tube 0.5" 39
Wiring Diagram For 39 Pin 1

W1IM

AB39MI
AB39CAPWT
AB39H
AB60G
ABKR
PT1-16BK-1.1
PT3-16BK-0.5
PT1-16BK-0.5
W1 Pin Out

Male Inline Connector / Cap, Wiring Kit Complete

39 Pin Male Inline Body with Ring 1
Dust Cap with Studs For Male 39 Pin 1
39 Pin Inline Housing with Set Screws 1
39-61 Inline Strain Relief Grip Range .375"-.50" 1
16mm Split Ring For Dust Cap Chain 1
Drain Wire Insulator 1/16" Blk Shrink Tube 1.1" 13
Mylar / Foil Insulator 3/16" Blk Shrink Tube 0.5" 13
Solder Cup Insulator 1/16" Blk Shrink Tube 0.5" 39
Wiring Diagram For 39 Pin 1



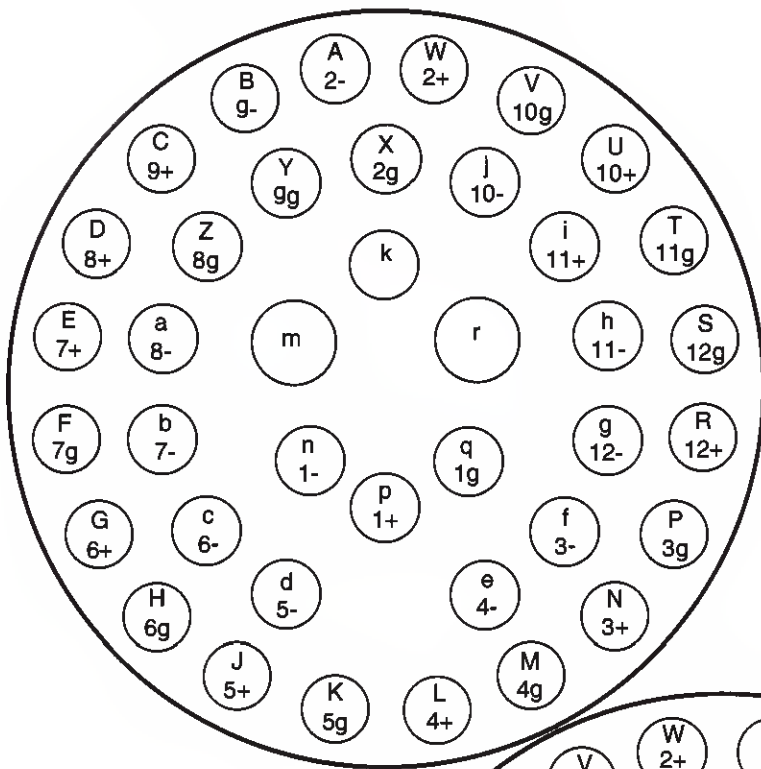
39 Pin

56 Pair Color Code

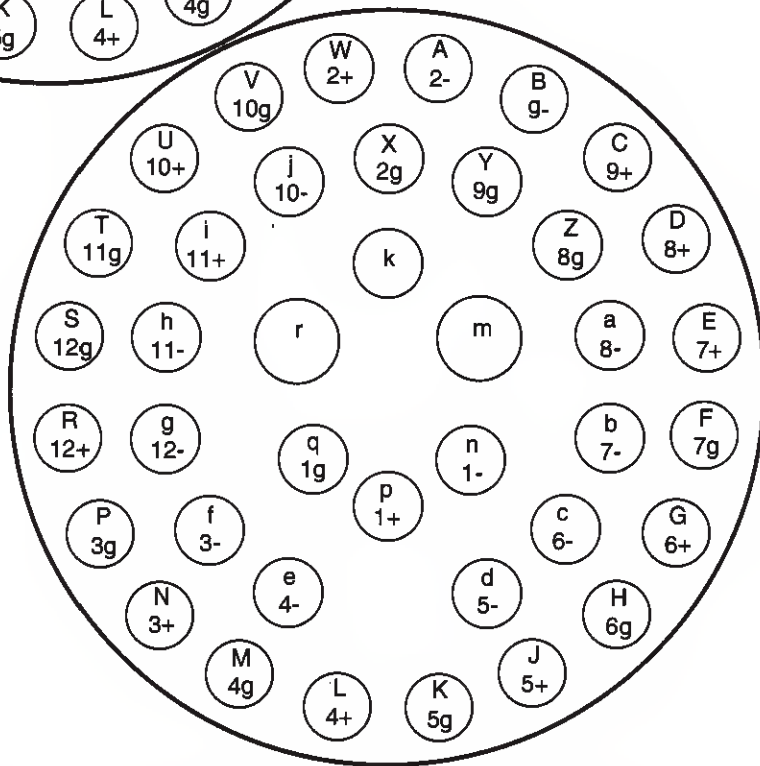
XLR Pair #	Pin 3 (-)	Pin 2 (+)	Pin 1 (g)
1	Black	Red	
2	Black	White	
3	Black	Green	
4	Black	Blue	
5	Black	Yellow	
6	Black	Brown	
7	Black	Orange	
8	Red	White	
9	Red	Green	
10	Red	Blue	
11	Red	Yellow	
12	Red	Brown	
13	Red	Orange	
14	Green	White	
15	Green	Blue	
16	Green	Yellow	
17	Green	Brown	
18	Green	Orange	
19	White	Blue	
20	White	Yellow	
21	White	Brown	
22	White	Orange	
23	Blue	Yellow	
24	Blue	Brown	
25	Blue	Orange	
26	Brown	Yellow	
27	Brown	Orange	
28	Orange	Yellow	
29	Purple	Orange	
30	Purple	Red	
31	Purple	White	
32	Purple	Green	
33	Purple	Blue	
34	Purple	Yellow	
35	Purple	Brown	
36	Purple	Black	
37	Gray	White	
38	Gray	Brown	
39	Gray	Red	
40	Gray	Green	
41	Gray	Orange	
42	Gray	Yellow	
43	Gray	Black	
44	Gray	Blue	
45	Pink	White	
46	Pink	Green	
47	Pink	Blue	
48	Pink	Yellow	
49	Pink	Brown	
50	Pink	Orange	
51	Pink	Purple	
52	Pink	Gray	
53	Beige	White	
54	Beige	Green	
55	Beige	Blue	
56	Beige	Yellow	

Whirlwind W1 39 Pin Connector Male And Female Wiring Code

1. Use these drawings for wiring 39 contact connectors both Male (Pins) and Female (Sockets).
2. The standard Whirlwind layout begins at the stage box. Chassis mount Female connectors with studs are the first choice for panel or box mounting. Inline Males with locking rings are the first choice for cable connectors.
3. Systems using connectors of this series require only that a Male connector with ring plugs into a Female connector with studs.



**Solder Side of
MALE Connector
(Pins)**



whirlwind

PO Box 12692 Rochester,
New York 14612
(716) 663-6620

Drawing can be used for mating face of opposite sex connector
Effective 11/93